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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 4

Complete if Known

Application Number	Unassigned
Filing Date	September 16, 2003
First Named Inventor	Christian FRISCH et al.
Group Art Unit	Unassigned 1637
Examiner Name	Unassigned Pande
Attorney Docket Number	37629-0079

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
SP	A01	5,895,651		Simons et al.	4/1999	
W	A02	5,814,477		Williams et al.	9/1998	
W	A03	5,989,554		Knuth et al.	11/1999	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ₆
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
SP	A04	WO	98/30684			7/16/1998		

Examiner
Signature

/Suchira Pande/

Date
Considered

05/19/2006

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	Examiner Name	Unassigned	
Sheet	2	of	4
	Attorney Docket Number	37023-0038 Pande	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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SP	A05	GUAN, C. et al., "Vectors that facilitate the expression and purification of foreign peptides in scherichia coli by fusion to maltosebinding protein", Gene, 1988, Vol. 67, pp. 21-30	
	A06	MAINA, C.V. et al., "An Escherichia coli vector to express and purify foreign proteins by fusion to and separation from maltosebinding protein", Gene, 1988, Vol. 74, pp. 367-373	
	A07	RUDOLPH, R. et al., "In vitro folding of inclusion body proteins", FASEB J., 1996, Vol. 10, pp. 49-56	
	A08	MARCZINOVITS, I. Et al., "An alternative purification protocol for producing hepatitis B virus X antigen on a preparative scale in Escherichia coli", J. Biotechnology, 1997, Vol. 56, pp. 81-88	
	A09	NANDI, A. et al., "Expression of the Extracellular Domain of the Human Heat-Stable Enterotoxin Receptor in Escherichia coli and Generation of Neutralizing Antibodies", Protein Expression and Purification, 1996, Vol. 8, pp. 151-159	
	A10	VAUGHAN, T.J., et al., "Human Antibodies with Sub-nanomolar Affinities Isolated from a large Non-immunized Phage Display Library", Nature Biotech., 1996, Vol. 14, pp. 309-314	
	A11	C. KREBBER et al., "Selectively-infective phage (SIP): A mechanistic dissection of a novel in vivo selection for protein-ligand interactions", J. Mol. Biol., 1997, Vol. 268, pp. 607-618	
	A12	L. PERSIC et al., "Single-chain variable fragments selected on the 57-76 p21 Ras neutralizing epitope from phage antibody libraries recognize the parental protein", FEBS Letters, 1999, Vol. 443, pp. 112-116	
	A13	Y. HITOMI et al., "High efficiency prokaryotic expression and purification of a portion of the Hepatitis C core protein and analysis of the immune response to recombinant protein in BALB/c mice", Viral Immunology, 1995, Vol. 8, pp. 109-119	
SP	A14	G. HAGENDORFF et al., "A monoclonal antibody generated against a recombinant peptide fragment of the B3 domain of carcinoembryonic antigen reacts with intact carcinoembryonic antigen", Biochemica et Biophysica Acta, 1995, Vo. 1260, pp. 259-268	

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	First Named Inventor	Christian FRISCH et al.	
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Sheet	3	of	4
	Attorney Docket Number	37629-0079	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
SP	A15	H. TAKEMURA et al., "Cloning and expression of human defensin HNP-1 genomic DNA in Escherichia coli", <u>Journal of Microbiological Methods</u> , 1996, Vol. 25, 287-293	
	A16	R. RUDOLPH and H. LILIE, "In vitro folding of inclusion body proteins", <u>The FASEB Journal</u> , 1996, Vol. 10, pp. 49-56	
	A17	JEAN-MICHEL BETTON et al., "Folding of a Mutant Maltose-binding Protein of Escherichia coli Which Forms Inclusion Bodies", <u>The Journal of Biological Chemistry</u> , April 5, 1996, pp. 8046-8052, Vol. 271, No. 14, The American Society for Biochemistry and Molecular Biology, Inc.	
	A18	DEB K. CHATTERJEE et al., "Cloning and overexpression of the gene encoding bacteriophage T5 DNA polymerase", <u>Gene</u> , 1991, pp. 13-19, Vol. 97, Elsevier Science Publishers	
	A19	GLEN A. COBURN et al., "Overexpression, Purification, and Properties of Escherichia coli Ribonuclease II", <u>The Journal of Biological Chemistry</u> , January 12, 1996, pp. 1048-1053, Vol. 271, No.2, The American Society for Biochemistry and Molecular Biology, Inc.	
	A20	NIEK DEKKER et al., "In vitro folding of Escherichia coli outer-membrane phospholipase A", <u>Eur. J. Biochem.</u> , 1995, pp. 214-219, Vol. 232, FEBS	
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	A22	JAN-OLOV HÖÖG et al., "Nucleotide sequence of the thioredoxin gene from Escherichia coli", <u>Bioscience Reports</u> , 1984, pp. 917-923, Vol. 4, The Biochemical Society, Great Britain	
	A23	ROBERT KUHELJ et al., "The preparation of catalytically active human cathepsin B from its precursor expressed in Escherichia coli in the form of inclusion bodies", <u>Eur. J. Biochem.</u> , 1995, pp. 533-539, Vol. 229, FEBS	
SP	A24	URSULA RINAS et al., "Overexpression of Bacterial Hemoglobin Causes Incorporation of Pre-β-Lactamase into Cytoplasmic Inclusion Bodies", <u>Appl. Environ. Microbiol.</u> , February 1993, pp. 561-566, Vol. 59, No. 2, American Society for Microbiology	

Examiner Signature	/Suchira Pande/	Date Considered	05/19/2006
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		Filing Date	September 16, 2003
		First Named Inventor	Christian FRISCH et al.
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Sheet 4 of 4	Attorney Docket Number	37629-0079	

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SP	A25	KOEN VANDENBROECK et al., "Refolding and single-step purification of porcine interferon-γ from Escherichia coli inclusion bodies Conditions for reconstitution of dimeric IFN-γ", Eur.J.Biochem., 1993, pp. 481-486, Vol. 215, FEBS	
SP	A26	S. MAKRIDES, "Strategies for Achieving High-Level Expression of Genes in Escherichia Coli", Microbiological Review (1996) 512-538.	
SP	A27	C. SCHEIN, "Solubility as a function of protein structure and solvent components", Bio/Technology vol. 8, (1990) 308-317	
SP	A28	D. WILKINSON et al., "Predicting the solubility of recombinant proteins in escherichia coli", Bio/Technology vol. 9 (1991) 443-448	

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